

CLAIMS

What is claimed is:

- 1 1. An image forming device comprising:
2 a processor configured to process executable instructions;
3 a storage configuration configured to store image data, plural instruction
4 components, and a dynamic application, wherein the instruction components
5 individually comprise plural executable instructions configured to cause the
6 processor to perform an operation with respect to formation of images, and the
7 dynamic application comprises plural executable instructions configured to cause
8 the processor to associate the dynamic application with at least one of the
9 instruction components and to perform an operation with respect to the at least
10 one associated instruction component;
11 an input/output interface configured to communicate the image data and
12 the dynamic application externally of the image forming device; and
13 an engine configured to form images upon media responsive to the image
14 data.
- 1 2. The device in accordance with claim 1 wherein the storage
2 configuration is configured to store instruction components individually comprising
3 plural firmware instructions.
- 1 3. The device in accordance with claim 1 wherein the input/output
2 interface is configured to receive the dynamic application from externally of the
3 image forming device.

1 4. The device in accordance with claim 1 wherein the storage
2 configuration comprises executable instructions configured to cause the processor
3 to identify the presence of the dynamic application.

1 5. The device in accordance with claim 1 wherein the dynamic
2 application includes executable instructions configured to cause the processor to
3 identify the at least one instruction component.

1 6. The device in accordance with claim 1 wherein the dynamic
2 application includes executable instructions configured to cause the processor to
3 store data with respect to execution of the dynamic application, and the
4 input/output interface is configured to output the stored data.

1 7. The device in accordance with claim 1 wherein the dynamic
2 application is configured to extract an instruction from a data stream of the image
3 forming device and the processor is configured to execute the extracted instruction.

1 8. The device in accordance with claim 1 wherein the dynamic
2 application includes executable instructions configured to cause the processor to
3 associate the dynamic application with an application program interface of the at
4 least one associated instruction component.

1 9. The device in accordance with claim 1 wherein the dynamic
2 application includes executable instructions configured to cause the processor to
3 establish a runtime linkage of the dynamic application with an application program
4 interface of the at least one associated instruction component.

1 10. The device in accordance with claim 1 wherein the dynamic
2 application includes executable instructions configured to cause the processor to
3 perform a Page CRC operation during execution of executable instructions within
4 the associated instruction component comprising an imaging subsystem.

1 11. The device in accordance with claim 1 wherein the dynamic
2 application includes executable instructions configured to cause the processor to
3 perform a test of operations of the image forming device.

1 12. An image forming method comprising:
2 providing an image forming device including a processor and an engine
3 configured to form images upon media;
4 providing plural instruction components individually including plural
5 executable instructions configured to cause the processor to perform an operation
6 with respect to the formation of images;
7 communicating a dynamic application relative to the image forming
8 device; and
9 associating the dynamic application with at least one of the instruction
10 components, the dynamic application including plural executable instructions
11 configured to cause the processor to perform an operation with respect to the at
12 least one associated instruction component.

1 13. The method in accordance with claim 12 wherein the providing the
2 instruction components comprises providing instruction components individually
3 comprising plural firmware instructions.

1 14. The method in accordance with claim 12 wherein the
2 communicating comprises receiving the dynamic application within the image
3 forming device.

1 15. The method in accordance with claim 12 further comprising
2 identifying the presence of the dynamic application after the communicating.

005730-0546360

16. The method in accordance with claim 12 and further comprising identifying the at least one instruction component after the communicating the dynamic application, and the associating is responsive to the identifying.

17. The method in accordance with claim 12 and further comprising: storing data after the associating and with respect to execution of instructions of the dynamic application; and outputting the stored data externally of the image forming device.

18. The method in accordance with claim 12 further comprising: extracting an instruction from a data stream of the image forming device; and executing the extracted instruction using the processor.

19. The method in accordance with claim 12 wherein the associating comprises associating the dynamic application with an application program interface of the at least one instruction component.

20. An image forming method comprising: providing an image forming device including a processor and a print engine configured to print images upon media; providing plural instruction components individually including plural executable instructions configured to cause the processor to perform an operation with respect to the formation of images; receiving a dynamic application within the image forming device; first identifying the dynamic application after the receiving; second identifying at least one instruction component after the first identifying; associating the dynamic application with the at least one instruction component after the second identifying, the associating including establishing a runtime linkage of the dynamic application with an application program interface of

14 the at least one instruction component, the dynamic application including plural
15 executable instructions configured to cause the processor to perform an operation
16 with respect to the at least one associated instruction component including storage
17 of data corresponding to the operation;
18 outputting the stored data from the image forming device; and
19 disabling the dynamic application.

005130-0546360